#### POGIL 2 Ions

How are lone made from neutral atoms?

You have teamed that not all atoms of an element are the same. Variation in the number of neutrons results in different isotopes of the element. In this activity we will explore another variation that can take place—the loss and gain of electrons. The exchange of electrons between atoms is a very common way for chemical change to take place. We will see it many times throughout the year.

Use Disserain 1 or the rest asset to complete the following: table.

	Metal or Nonmetal	Number of pretens inthe store	Wassber of protons in the ion	Mumber of neutrons in the attent	Number of secotroes in the ion	Number of electrons in the atom	Number of electrons in the item	Change on the lon
Lithium:	rected	3		4	-	3	2	13%
Magnissians	Metal	12	7.2	7.2	12	12	1.0	200
Akaminum	Metalloid	13	7.3	14	34	15	10	311
Physicae	Non-metal	9	and the same	10	10	0	1.0	100
Ovegen	(homestall)	8	N		.81	8	1.0	2-
Nitrogen	Non-meter	7	7	7	7	7	5.0	3-

Based on the table you completed in Question 1, what distinguishes a neutral atom flore an ion?
A weatral atom has the same number of protons and electrons (no charge). An ion has a charge (it of protons does not equal it of electrons).

- 3. Examine the isstope symbols in Diagram I...
  - a. Where is the lan charge located in the leasupe symbol?

Top right corner

- b. Is a charge indicated on the neutral atoms? If yes, where is it located? No.
- Which substrettle particle carries a positive charge?

Protons are positive

5. Which subspenie particle carries a negative charge?

Electrons are negative

 Propose a mathematical equation to calculate the change on an ion from the number of presons and electrons in an ion. Confirm that your equation works using two posts valors examples and two possitive ion examples from Dissersen 1.

The charge of an ion - # of protons - # of electrons

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**Arshad Iqbal** 

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# Table of Contents Pogil Activities For High School Chemistry Ions Answer Key

- 1. Understanding the eBook Pogil Activities For High School Chemistry Ions Answer Key
  - The Rise of Digital Reading Pogil Activities For High School Chemistry Ions Answer Key
  - Advantages of eBooks Over Traditional Books
- 2. Identifying Pogil Activities For High School Chemistry Ions Answer Key
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Pogil Activities For High School Chemistry Ions Answer Key
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Pogil Activities For High School Chemistry Ions Answer Key
  - Personalized Recommendations
  - Pogil Activities For High School Chemistry Ions Answer Key User Reviews and Ratings
  - Pogil Activities For High School Chemistry Ions Answer Key and Bestseller Lists

- 5. Accessing Pogil Activities For High School Chemistry Ions Answer Key Free and Paid eBooks
  - o Pogil Activities For High School Chemistry Ions Answer Key Public Domain eBooks
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- 6. Navigating Pogil Activities For High School Chemistry Ions Answer Key eBook Formats
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  - Pogil Activities For High School Chemistry Ions Answer Key Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Pogil Activities For High School Chemistry Ions Answer Key
  - Highlighting and Note-Taking Pogil Activities For High School Chemistry Ions Answer Key
  - Interactive Elements Pogil Activities For High School Chemistry Ions Answer Key
- 8. Staying Engaged with Pogil Activities For High School Chemistry Ions Answer Key
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Pogil Activities For High School Chemistry Ions Answer Key
- 9. Balancing eBooks and Physical Books Pogil Activities For High School Chemistry Ions Answer Key
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Pogil Activities For High School Chemistry Ions Answer Key
- 10. Overcoming Reading Challenges
  - o Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Pogil Activities For High School Chemistry Ions Answer Key
  - Setting Reading Goals Pogil Activities For High School Chemistry Ions Answer Key
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Pogil Activities For High School Chemistry Ions Answer Key
  - Fact-Checking eBook Content of Pogil Activities For High School Chemistry Ions Answer Key
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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